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NOTICE OF ALLOWANCE AND FEE(S) DUE

46917

7590

02/26/2009

KONRAD RAYNES & VICTOR, LLP. ATTN: IBM37 315 SOUTH BEVERLY DRIVE, SUITE 210 BEVERLY HILLS, CA 90212 EXAMINER

GOODCHILD, WILLIAM J

ART UNIT PAPER NUMBER

2445

DATE MAILED: 02/26/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,559	09/15/2003	David Darden Chambliss	SJO920030006US1	3819

TITLE OF INVENTION: METHOD FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE BETWEEN HOST SYSTEMS AND STORAGE

VOLUMES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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ppropriate. All further of the corrected unless corrected aintenance fee notificated the corrected that the	correspondence includin d below or directed oth	g the Patent, advance of the lerwise in Block 1, by (a	rders and notification of many specifying a new corres	naintenance fees w pondence address;	ill be r and/or	mailed to the current (b) indicating a sepa	corresp rate "F	ondence address as EE ADDRESS" for
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ATTN: IBM37 315 SOUTH BE	7590 02/26/ YNES & VICTOF VERLY DRIVE, SU	R, LLP.		Cert	ificate	of Mailing or Transi) Transmittal is being icient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission	1
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			_					(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONF	FIRMATION NO.
10/663,559 ITLE OF INVENTION OLUMES	09/15/2003 N: METHOD FOR MA	ANAGING INPUT/OUT	David Darden Chambliss PUT (I/O) PERFORMAN	NCE BETWEEN 1		0920030006US1 SYSTEMS AND ST	ORAG	3819 3E
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810		05/26/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
GOODCHILD	, WILLIAM J	2445	709-224000	l.				
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor	names of up to 3 registered patent attorneys 1				
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIC	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE		THE PATENT (print or typ data will appear on the part a substitute for filing an a (B) RESIDENCE: (CITY	ttent. If an assigne assignment. and STATE OR C	OUNT.			_
lease check the appropri	ate assignee category or		•					<u>. </u>
	re submitted: o small entity discount p f of Copies	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
a. Applicant claims	t us (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long	-				
OTE: The Issue Fee and terest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a regis	stered a	ttorney or agent; or th	e assigr	nee or other party in
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his collection of informa n application. Confident abmitting the completed his form and/or suggesti ox 1450, Alexandria, V lexandria, Virginia 223	iality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR (on is required to obtain or re 1.14. This collection is est depending upon the indiv. e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 n idual case. Any corr, U.S. Patent and This ADDRESS	ne publi ninutes mments Fradem . SENE	ic which is to file (and to complete, including s on the amount of tin lark Office, U.S. Depa O TO: Commissioner f	by the gatherne you rtment or Pate	USPTO to process) ring, preparing, and require to complete of Commerce, P.O. nts, P.O. Box 1450,

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10/663,559	09/15/2003	David Darden Chambliss	SJO920030006US1	3819			
46917 75	46917 7590 02/26/2009			EXAMINER			
KONRAD RAYI	NES & VICTOR, LL	GOODCHILD, WILLIAM J					
ATTN: IBM37			ART UNIT	PAPER NUMBER			
315 SOUTH BEVERLY DRIVE, SUITE 210 BEVERLY HILLS, CA 90212			2445 DATE MAILED: 02/26/200	9			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 843 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 843 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/663,559	CHAMBLISS ET AL.
Notice of Allowability	Examiner	Art Unit
	WILLIAM I COODCHILD	2445
	WILLIAM J. GOODCHILD	2445
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS . This application is subje	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to <u>11/29/2008</u> .		
2. The allowed claim(s) is/are 1-15,17 and 18.		
 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do 	e been received. e been received in Application No)
International Bureau (PCT Rule 17.2(a)).		3 11
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (P	TO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in th	ne Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informa	al Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summ	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail 7.	Date ndment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ement of Reasons for Allowance
of Biological Material	9.	
/Patrice Winder/		
Primary Examiner, Art Unit 2445		

Application/Control Number: 10/663,559 Page 2

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Applicant Arguments/Remarks Made in an Amendment, filed 11/29/2008, with respect to claims 1-15 and 17-18 have been fully considered and are persuasive. The rejection of claims 1-15 and 17-18 has been withdrawn.

Allowable Subject Matter

- 2. Claims 1-15 and 17-18 are allowed. The claims indicated include limitations that the prior arts of record do not appear to teach or render obvious, hence they are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The combination of an SLA controller monitoring I/O and providing flow control based on SLA metrics defined within the SLA appear to be non-obvious. Applicants arguments "Thus, even if one modifies the QoS enforcer or content controller of Guha with the virtualization controller of Ng, the claim requirements with respect to a virtualization controller and SLA server are still not taught or suggested by the cited combination of Guha and Ng. The Examiner found that the combination of Guha and Ng do not disclose the claim requirement of a service level agreement server determining performance data maintained for the application service connection for which the

Art Unit: 2445

gathered performance data was received; updating, by the service level agreement server, the determined performance data with the performance data received from the virtualization controller. The Examiner cited col. 2, line 60 to col. 3, line 8 of Bradley as teaching this claim requirement. (OA4, pg. 4) Applicants traverse. The cited cols. 2-3 of Bradley mentions a time based service monitoring mechanism for monitoring service level agreements to monitor a level of network service offered by a service provider. Data is received for defining one or more tests for monitoring the level of network service provided to a customer. The tests are distributed to agents configured to communicate with devices. Although the cited Bradley discusses how service level agreements are monitored, there is no teaching in Bradley or the cited Guha-Ng, that a service level agreement server updates performance data with performance data received from a virtualization controller, and then use that performance data to determine whether performance criteria is satisfied to determine whether to send commands to the virtualization controller that provided the performance data to have the virtualization controller throttle I/O transmission for a connection for which performance criteria is not satisfied", relating to the combination of Bradley with Guha-Ng are persuasive.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM J. GOODCHILD whose telephone number is (571)270-1589. The examiner can normally be reached on Monday - Friday / 8:00 AM - 4:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton Burgess can be reached on (571) 272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrice Winder/ Primary Examiner, Art Unit 2445

WJG 02/11/2009